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Ti-kai Chang
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Permanent Address :
221 Feng-Nien Street
Pingtung city, Taiwan
Born in PingTung, Oct 16 1991.
Taiwanese, French nationality

Language Skills

Mandarin (Native tongue); **English** (fluent, Scored 650 in the institutional TOEFL at *Ecole Polytechnique*);
French (fluent); **Japanese** (Intermediate, N3 unconfirmed, limited professional proficiency)

Education

- Sep 2015-present *Bar Ilan University*, Ramat Gan. PhD in Physics: *Coupling Superconducting Flux Qubits to Bismuth donors in Silicon*.
- 2015 *Ecole Normale Supérieure*, Paris. M2 International Center for Fundamental Physics - Quantum Physics, co-organized by ENS and Ecole Polytechnique.
- 2011-2015 *Ecole Polytechnique*, Paris. One of France's leading schools of science and engineering. Specialized in Physics. Enrolment in the program *Photons et atomes : lasers, optique, plasmas* as the 3rd-year specialisation.
- 2009-2011 *Lycee Montaigne, Bordeaux*. Intensive preparatory program leading to the competitive entrance exams to the elite French *Grandes Ecoles*.
- 2006-2009 National Kaohsiung Senior High School, Kaohsiung, Taiwan. Specialized in Science. High School Diploma. Scored 72/75 in the national exam.
- March 2009 Selected for the program "Taiwanese Students in French *Classes Préparatoires*", ranked 6th place in the selection test.

Scientific experience

- Jan-June 2015 M2 internship at Commissariat d'Energie Atomique: *Superconducting Flux Qubits for coupling with spins* Tutor: Michael Stern
- Avril-July 2014 M1 internship at Institute d'Optique: *Design and Characterization of an Imaging System for an Atomic Cloud trapped in a Dipole Trap* Tutor: Philippe Grangier
- Fall 2013 Lab research project (*Projet recherche en laboratoire*) in Leprince-Ringuet Lab. Subject: *Simulation numérique d'accélération relativiste d'électrons par interaction laser-plasma*. Tutor: Arnauld Beck
- summer 2013 Internship at Japanese Aerospace Exploration Agency (JAXA). Study and computer simulation on the sky-crane landing method. Tutor: Fujita Kazuhisa
- 10/2010-4/2011 Team-Based Research Project (*Projet Scientifique Collectif*). Natural evolution of algorithms and automates. Tutor: Dominique Rossin of the Computer Science Department at Ecole Polytechnique.
- 2009-2011 Independent Research (*TIPE: Travail d'initiative personnelle encadré*) on Stability of the Spin-Orbital Resonance of Mercury.

Professional experience

- 10/2011- 04/2012 *Lycée Edmond Rostand*, France. Humanitarian and leadership training internship: tutor (7 months) to high school students. Gave tutorial courses in a rural, underprivileged senior high school. Taught mainly in mathematics and physics. Co-organized an orientation fair with another French classmate.
- 11/2011-7/2013 Irregular on-demand tutoring to a student from a technical college in Mathematics.

Computer Skills

Computer skills C; C++; C#; Java; L^ATEX; Matlab; Labview; Python; Go